

# Canola - notes and NVT entries 2018

October 2018

## New varieties for 2019

At least eight new canola varieties will be on the market for 2019. There may be very limited quantities of TruFlex varieties available depending on approval timelines.

The maturity statements about varieties relate to physiological maturity, and have been provided by the seed companies.

Canola varieties vary markedly in response (i.e. early vigour, accumulation of biomass, start of flowering and maturity) to sowing date and seasonal conditions. Phenology responses may not reflect maturity ratings. For early sowing select a variety that is not quick to flower. Information on the response of varieties to early sowing and optimal flowering dates for environments in NSW is available on the GRDC website.

<https://grdc.com.au/10TipsEarlySownCanola>

Blackleg resistance ratings and resistance groups in the yield tables have been taken from the 2018 Spring Blackleg Management Guide factsheet, available on the GRDC website.

<https://grdc.com.au/resources-and-publications/all-publications/publications/2018/blackleg-management-guide>

Variety descriptions have been provided by the seed companies. This information will be updated before inclusion in the NSW DPI *Winter crop variety sowing guide 2019*.

### Triazine tolerant (TT) varieties

**Hyola<sup>®</sup> 550TT**. Mid–early maturing hybrid. Suited to low–high rainfall areas. Medium plant height, with compact plant type. Blackleg rating TBA and resistance groups TBA. Tested in NVT trials for the first time in 2018. Marketed by Advanta Seeds.

**InVigor T 3510** (coded CHYB2124TT). Early to early–mid maturing hybrid. Particularly suited to early season areas. Blackleg rating

TBA and resistance groups TBA. Tested in NVT trials for the first time in 2018. Limited seed 2019. Marketed by BASF.

**Pioneer<sup>®</sup> 45T03 (TT)**. Mid maturing hybrid. Suited to medium–high rainfall zones. Medium plant height. Blackleg rating TBA and resistance groups TBA. Tested in NVT trials for the first time in 2018. Marketed by Pioneer Brand Seeds.

**SF Spark TT**. (coded SFR65-023). Early maturing hybrid. Suited to low–medium rainfall areas. Medium plant height. Blackleg rating R and resistance groups ABDF. Tested in NVT trials for the first time in 2018. Marketed by Seed Force.



### **Imidazolinone tolerant (CLEARFIELD®) varieties**

**Pioneer® 45Y93 (CL).** (coded PHI 1706). Early flowering mid maturing hybrid. Suited to medium–high rainfall areas. Medium–tall plant height. Blackleg rating R–MR and resistance groups BC. Tested in NVT trials in 2017, and in limited trials in 2018. Marketed by Pioneer Brand Seeds.

### **Roundup Ready® varieties**

**InVigor R 4020P.** (coded AN16R9438). Early–mid maturing hybrid suited to medium rainfall zones, with Pod Shatter tolerance trait PodGuard™. Suited to later windrow timings or direct harvesting in medium rainfall areas. Blackleg rating TBA and resistance groups TBA. Tested in NVT trials for the first time in 2018. Marketed by BASF.

**Pioneer® 43Y29 (RR).** (coded PHR 1703 in 2017). Early maturing hybrid. Suited to medium–low rainfall areas. Medium plant height. Blackleg rating MR and resistance groups BC. Tested in NVT trials in 2017 only. Marketed by Pioneer Brand Seeds.

### **Dual herbicide tolerant: IMI (Clearfield®) Tolerant + Triazine Tolerant varieties**

New varieties are being developed that combine two herbicide-tolerance traits, allowing improved weed control in paddocks where weeds have developed resistance to other herbicide chemistries.

**Hyola® 580CT.** (coded T61001 in 2017). Mid–early maturing hybrid. Suited to medium–high rainfall areas. Medium plant height. Blackleg rating R–MR and resistance groups BC. Tested in NVT trials in 2017 and 2018. Marketed by Advanta Seeds.

### **The following varieties are outclassed but seed will still be available for 2019**

- AV-Garnet

### **The following varieties have been withdrawn for 2019**

- Archer
- ATR-Gem
- Nuseed GT-41
- Pioneer 45T01 TT

Comparative performance in NVT trials<sup>1</sup> – early maturing

Variety	North West	North East	South West	South East	Oil % #	Blackleg rating spring 2018 ##	Blackleg group spring 2018 ##
	2013–2017	2013–2017	2013–2017	2013–2017	2017		
Early maturing conventional trials– mean seed yield expressed as a % of AV-Garnet							
AV-Garnet	100 (6)	100 (5)	100 (2)	n.d.	37.4 (4)	MS	A
Nuseed Diamond	133 (6)	141 (4)	109 (2)	n.d.	40.7 (4)	MR	ABF
Nuseed Quartz	126 (3)	128 (2)	n.d. (1)	n.d.	41.0 (4)	R	ABD
Victory® V3002	108 (5)	109 (4)	n.d. (1)	n.d.	40.1 (4)	MR	ABF
<b>AV-Garnet t/ha</b>	<b>1.45</b>	<b>1.12</b>	<b>1.53</b>				
Early maturing Triazine tolerant (TT) trials – mean seed yield expressed as a % of ATR-Stingray							
ATR-Bonito	96 (6)	96 (5)	97 (2)	n.d.	41.6 (4)	MS	A
ATR-Stingray	100 (5)	100 (3)	100 (1)	n.d.	38.7 (2)	MR	C
BASF 3000TR	103 (3)	n.d. (0)	n.d. (1)	n.d.	38.4 (2)	MS–S	B
Hyola 350TT	109 (2)	n.d. (1)	n.d. (1)	n.d.	40.0 (4)	R	ABDF
Hyola® 559TT	106 (6)	104 (3)	109 (2)	n.d.	42.5 (3)	MR	ABD
HyTTec Trophy	105 (2)	n.d. (1)	n.d. (0)	n.d.	40.6 (4)	R–MR	ABD
InVigor T 4510	108 (3)	108 (2)	n.d. (1)	n.d.	38.8 (4)	MR–MS	BF
Monola® 416TT	95 (4)	n.d. (0)	n.d. (1)	n.d.	38.3 (2)	MR	B
Pioneer® 44T02 TT	109 (5)	108 (3)	n.d. (1)	n.d.	41.4 (4)	R–MR	ABD
<b>ATR-Stingray t/ha</b>	<b>1.61</b>	<b>1.28</b>	<b>1.58</b>				
Early maturing Clearfield trials – mean seed yield expressed as a % of Hyola® 575CL							
Hyola® 575CL	100 (6)	100 (5)	100 (2)	n.d.	39.2 (4)	R	BF
Pioneer® 43Y92 (CL)	117 (3)	119 (2)	n.d. (1)	n.d.	40.0 (4)	R–MR	B
Pioneer® 44Y90 (CL)	117 (5)	119 (3)	n.d. (1)	n.d.	40.6 (4)	R–MR	B
Saintly CL	113 (4)	116 (2)	n.d. (0)	n.d.	40.1 (4)	MR	B
Victory V7002CL	113 (2)	n.d. (1)	n.d. (0)	n.d.	40.7 (4)	MR	ABF
<b>Hyola® 575CL t/ha</b>	<b>1.66</b>	<b>1.30</b>	<b>1.63</b>				
Early maturing Roundup Ready trials – mean seed yield expressed as a % of Hyola® 404RR							
DG 408RR	105 (2)	n.d.	n.d.	n.d.	42.1 (2)	MS	AC
Hyola® 404RR	100 (4)	n.d.	100 (2)	n.d.	41.5 (2)	R–MR	ABD
InVigor R 3520	105 (2)	n.d.	n.d.	n.d.	40.1 (2)	MR	Unknown
Nuseed GT-42	94 (3)	n.d.	n.d.	n.d.	38.8 (2)	R	ABDF
Pioneer® 43Y23 (RR)	103 (4)	n.d.	101 (2)	n.d.	37.9 (2)	MR	B
Pioneer® 44Y27 (RR)	109 (2)	n.d.	n.d. (1)	n.d.	38.4 (2)	R–MR	B
<b>Hyola® 404RR t/ha</b>	<b>1.80</b>		<b>1.62</b>				

Number of trials in brackets ( ). The more trials, the greater the reliability. n.d. No data.

<sup>1</sup> Based on predicted yields from an analysis across all sites (2013–2017 NVT trials).

New varieties have less trial data supporting the 5 year dataset and hence should be viewed with some caution, especially where there are only (2) trial results.

# Oil content, adjusted to 6.0% moisture content, is expressed as a region-wide average for the maturity trial grouping and is for 2017 only. Number of trials in brackets ( ). ## Blackleg ratings are the published ratings for spring 2018.

Comparative performance in NVT trials<sup>1</sup> – mid maturing

Variety	North West	North East	South West	South East	Oil % #	Blackleg rating spring 2018 ##	Blackleg group spring 2018 ##
	2013–2017	2013–2017	2013–2017	2013–2017	2017		
Mid-maturing conventional trials– mean seed yield expressed as a % of AV-Garnet							
AV-Garnet	100 (4)	100 (5)	100 (5)	100 (5)	38.7 (3)	MS	A
Nuseed Diamond	118 (4)	113 (4)	109 (5)	108 (5)	39.1 (3)	MR	ABF
Nuseed Quartz	n.d. (1)	123 (2)	126 (2)	125 (2)	40.8 (3)	R	ABD
Victory® V3002	104 (4)	99 (5)	101 (5)	100 (5)	39.2 (3)	MR	ABF
<b>AV-Garnet t/ha</b>	<b>1.69</b>	<b>1.55</b>	<b>1.74</b>	<b>2.14</b>			
Mid-maturing Triazine Tolerant (TT) trials – mean seed yield expressed as a % of ATR-Bonito							
ATR-Bonito	100 (9)	100 (9)	100 (10)	100 (27)	43.8 (7)	MS	A
ATR-Mako	102 (7)	100 (6)	103 (6)	101 (22)	41.0 (9)	MR	A
ATR-Stingray	99 (7)	99 (7)	95 (8)	97 (18)	40.6 (3)	MR	C
ATR-Wahoo	95 (8)	97 (6)	103 (4)	102 (28)	42.5 (7)	MS	A
BASF 3000 TR	106 (4)	103 (4)	104 (4)	104 (12)	37.7 (2)	MS–S	B
Hyola® 559TT	109 (9)	106 (10)	109 (10)	109 (29)	43.9 (10)	MR	ABD
Hyola® 650TT	106 (4)	105 (9)	114 (4)	111 (26)	44.7 (6)	R	ABD
Hyola® 580CT	n.d.	99 (2)	n.d.	105 (6)	41.4 (9)	R–MR	BC
HyTTec Trophy	n.d. (1)	121 (2)	126 (2)	124 (6)	41.9 (9)	R–MR	ABD
InVigor T 4510	112 (3)	115 (4)	117 (4)	117 (12)	42.2 (10)	MR–MS	BF
Monola®416TT	98 (6)	97 (2)	97 (7)	98 (15)	43.4 (3)	MR	B
Monola® 515TT	87 (7)	83 (4)	88 (6)	88 (17)	43.8 (4)	MR	Unknown
Pioneer 44T02 (TT)	112 (5)	106 (6)	108 (6)	108 (15)	42.7 (9)	R–MR	ABD
SF Ignite TT	108 (2)	112 (4)	117 (2)	116 (10)	42.5 (6)	MR	BF
SF Turbine TT	109 (5)	109 (6)	110 (6)	110 (18)	41.8 (10)	MR–MS	BF
<b>ATR-Bonito /ha</b>	<b>1.84</b>	<b>1.77</b>	<b>1.76</b>	<b>1.99</b>			

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Disclaimer: The information contained in this publication is based on knowledge and understanding at the time of writing (October 2018). However, because of advances in knowledge, users are reminded of the need to ensure that information upon which they rely is up to date and to check currency of the information with the appropriate officer of the Department of Primary Industries or the user's independent adviser

Variety	North West 2013–2017	North East 2013–2017	South West 2013–2017	South East 2013–2017	Oil % # 2017	Blackleg rating spring 2018 ##	Blackleg group spring 2018 ##
Mid-maturing CLEARFIELD® trials– mean seed yield expressed as a % of Hyola® 575CL							
Banker CL	111 (7)	120 (6)	113 (6)	115 (21)	41.1 (10)	MR–MS	A
Hyola® 575CL	100 (9)	100 (10)	100 (10)	100 (29)	41.7 (10)	R	BF
Pioneer® 43Y92 (CL)	117 (3)	122 (4)	112 (4)	114 (8)	41.5 (6)	R–MR	B
Pioneer® 44Y90 (CL)	116 (5)	124 (6)	116 (6)	117 (14)	43.0 (9)	R–MR	B
Pioneer® 45Y91 (CL)	111 (4)	118 (3)	110 (1)	112 (14)	43.1 (8)	MR	B
Pioneer® 45Y93 (CL)	n.d.	n.d.	118 (2)	119 (5)	42.3 (9)	R–MR	BC
Saintly CL	117 (5)	123 (5)	111 (6)	110 (17)	43.8 (9)	MR	B
Victory V7002CL	n.d. (1)	110 (2)	100 (2)	100 (3)	41.7 (7)	MR	ABF
<b>Hyola® 575CL t/ha</b>	<b>1.90</b>	<b>1.71</b>	<b>1.86</b>	<b>2.06</b>			
Mid-maturing Roundup Ready trials – mean seed yield expressed as a % of Nuseed GT-53							
DG 408RR	97 (2)	n.d.	94 (3)	96 (2)	43.3 (3)	MS	AC
DG 460RR	89 (3)	n.d.	91 (6)	96 (12)	44.3 (6)	MR	A
Hyola® 506RR	94 (2)	n.d.	94 (3)	98 (9)	45.1 (6)	R	ABD
IH51 RR	88 (4)	n.d.	90 (7)	94 (14)	42.9 (6)	MR–MS	A
InVigor R 5520P	87 (3)	n.d.	87 (4)	95 (11)	43.2 (6)	MR	AC
Monola® G11	92 (4)	n.d.	80 (9)	84 (12)	43.1 (3)	R–MR	ABS
Nuseed GT-42	91 (3)	n.d.	89 (6)	92 (7)	41.6 (4)	R	ABDF
Nuseed GT-53	100 (3)	n.d.	100 (5)	100 (14)	44.5 (5)	R	ABDF
Pioneer® 43Y23(RR)	96 (4)	n.d.	92 (10)	96 (7)	38.7 (2)	MR	B
Pioneer® 43Y29(RR)	n.d.	n.d.	94 (2)	98 (3)	43.7 (5)	MR	BC
Pioneer® 44Y27(RR)	98 (2)	n.d.	95 (4)	101 (7)	43.6 (2)	R–MR	B
Pioneer® 45Y25(RR)	96 (5)	n.d.	102 (5)	103 (17)	45.7 (3)	MR	BC
Victory® V5003RR	87 (5)	n.d.	88 (9)	91 (18)	43.6 (6)	MR	A
<b>Nuseed GT-53 t/ha</b>	<b>2.36</b>		<b>2.23</b>	<b>2.57</b>			

1 Based on predicted yields from an analysis across all sites (2013–2017 NVT trials).

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# Oil content, adjusted to 6.0% moisture content, is expressed as a region-wide average for the maturity trial grouping and is for 2017 only. Number of trials in brackets ( ). ## Blackleg ratings are the published ratings for spring 2018.

#### More information

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